INTERNATIONAL SEARCH REPORT

International Application No FET/AT2004/000196

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B66B23/04 B66B23/24

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 B66B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 134 883 A (MENDELSOHN MORRIS A ET AL) 16 January 1979 (1979-01-16)	1-3,5,6, 8,9,12,
Υ	column 1, lines 20-35; table 1.	42,47,51 4,7,10, 11,
	column 2, lines 5-10	13-15,43
Y	US 6 199 678 B1 (REO SEUNG DAE) 13 March 2001 (2001-03-13)	4,43
A	abstract; figures 5a-5c,6á,6b	1
X	US 1 101 209 A (PITT) 23 June 1914 (1914-06-23)	21-23
Y	figures 2-5	7
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χ Further documents are listed in the continuation of box C.	X Patent family members are listed in annex.
Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date	"T" later document published after the international filing date or priority date and not in conflict with the application but clied to understand the principle or theory underlying the invention.
"L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	 "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention
 'O' document referring to an oral disclosure, use, exhibition or other means 	document is combined with one or more other such docu
P document published prior to the International filing date but later than the priority date claimed	ments, such combination being obvious to a person skilled in the art. *& document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
18 October 2004	25/10/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL 2280 HV Rijswijk	Authorized officer
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Janssens, G
orm PCT/ISA/210 (second sheet) (January 2004)	

INTERNATIONAL SEARCH REPORT

International Application No
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Y A Y A Y F F Y A T T T T T T T T T T T T T T T T T T	PATENT ABSTRACTS OF JAPAN vol. 016, no. 082 (M-1215), 27 February 1992 (1992-02-27) -& JP 03 264490 A (MITSUBISHI ELECTRIC CORP), 25 November 1991 (1991-11-25) abstract; figures 2-6 PATENT ABSTRACTS OF JAPAN vol. 016, no. 206 (M-1248), 15 May 1992 (1992-05-15) A JP 04 032491 A (SHOWA ELECTRIC WIRE & CABLE CO LTD), 4 February 1992 (1992-02-04) abstract JS 3 568 813 A (SCHAEFFER ROBERT O ET AL) D March 1971 (1971-03-09) Figure 4 JS 3 623 590 A (JOHNSON ERNEST D) SO November 1971 (1971-11-30) Figures 1-4 JS 3 1048 256 A (SKINNER CLAYTON H)	Relevant to claim No. 10,11 1 13 1 14 1 15,26 1 16,17, 20,44, 45,51 18,19
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